

CLAIMS

1. A substance dispensing device being configured to indicate the extent to which substance has been dispensed therefrom, the device including:

5 a substance storage container for containing substance to be dispensed;
a pump, each operation of the pump dispensing a predetermined percentage of the substance stored in the container; and

an actuator that is biased towards a rest position and is moved from the rest position to effect each operation of the pump and return to the rest
10 position to enable subsequent operations of the pump; and

a usage indicator having a movable member responsive to each operation of the pump, indicator means associated with the movable member providing a visual indication of the extent to which substance has been dispensed from the container.

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2. A substance dispensing device according to claim 1 wherein the movable member is moved in response to movement of the actuator away from its rest position.

20 3. A substance dispensing device according to claim 2, wherein the movable member is moved in response to movement of the actuator back to its rest position, so that two stage movement of the movable member represents a single operation of the pump.

25 4. A substance dispensing device according to claim 3, wherein the actuator is moved in the direction of an axis and the movable member is rotated about the axis, the actuator having drive means that cooperates with reaction means of the movable member to convert the axial movement of the actuator to rotational movement of the movable member about the axis.

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5. A substance dispensing device according to claim 4, wherein the drive means includes a pair of axially spaced lugs formed with the actuator and the reactive means includes two series of teeth formed with the movable member

one series for each lug, the lugs being spaced axially so that only one lug can engage a tooth of its respective series of teeth at any one time.

5 6. A substance dispensing device according to claim 5, wherein the number of teeth in either series is selected according to the number of operations of the pump required to substantially exhaust the substance from its container.

10 7. A substance dispensing device according to claim 6, wherein the movable member is a first movable member and the usage indicator includes a second movable member, the second movable member cooperating with the first movable member to move only after the first movable member has completed one revolution, whereby complete revolution of both first and second movable members represents the number of operations of the pump required to substantially exhaust substance from the container.

15 8. A substance dispensing device according to any one of the preceding claims, including an interlock means cooperable with the usage indicator being activated after a predetermined number of operations of the pump to prevent further operation of the pump.

20 9. A substance dispensing device including a hollow body for accommodating the container, the pump and usage indicator, the body having an aperture through which the indicator means is viewed.